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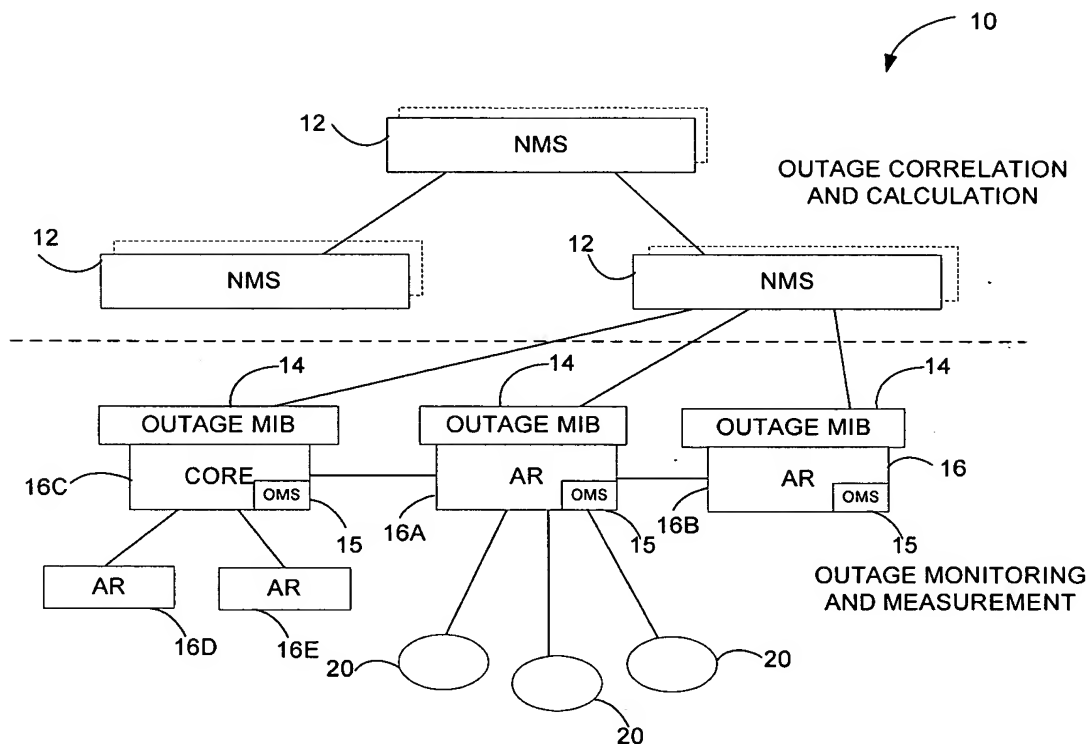


FIG. 1

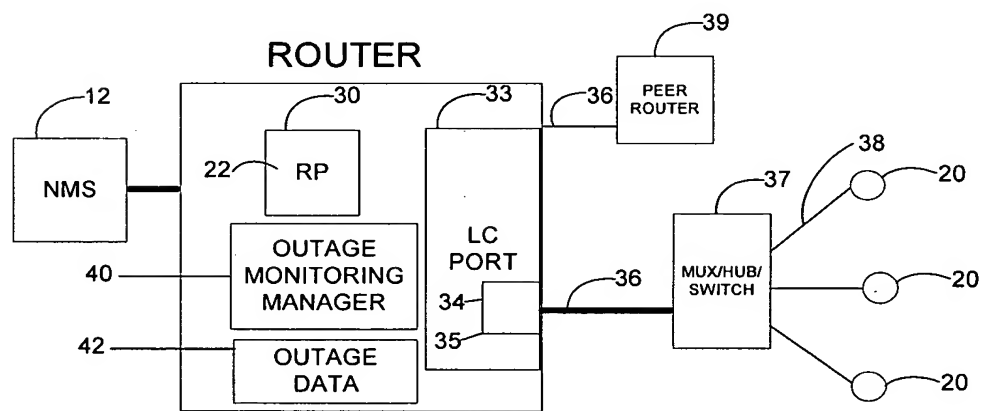


FIG. 2

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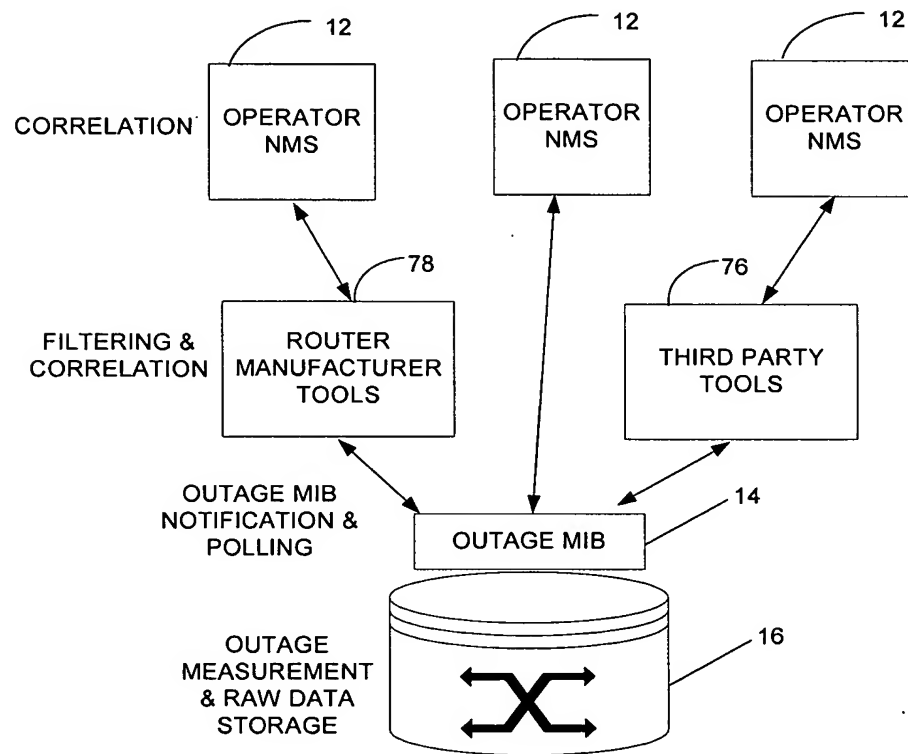


FIG. 3

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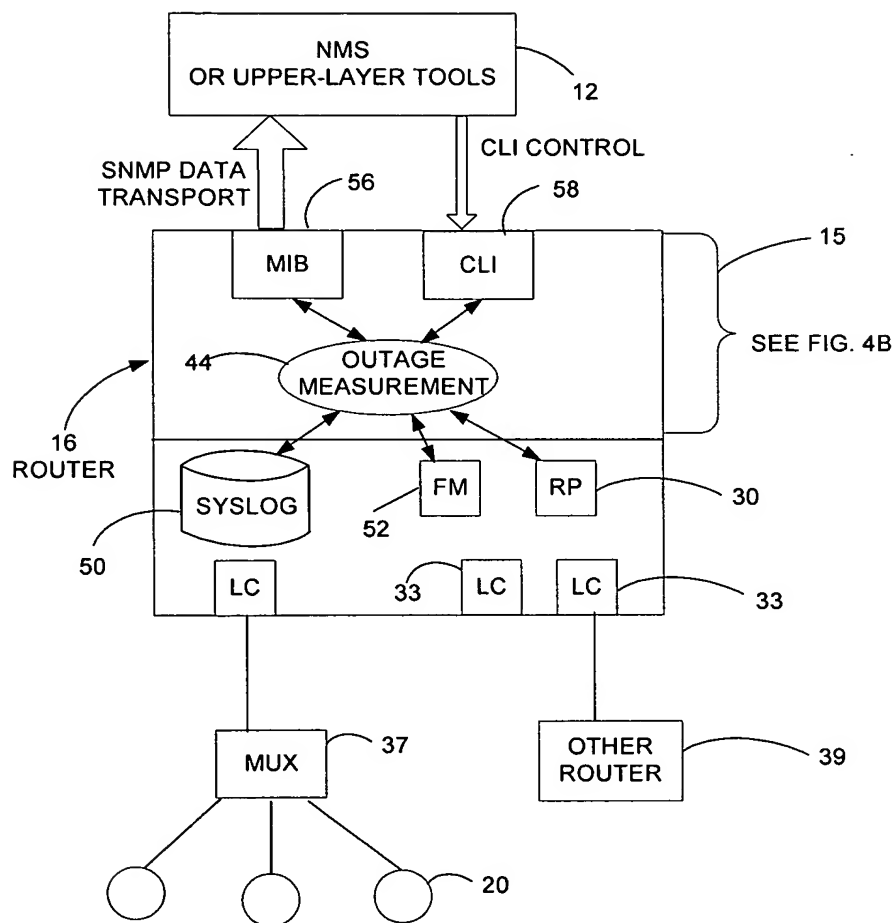


FIG. 4A

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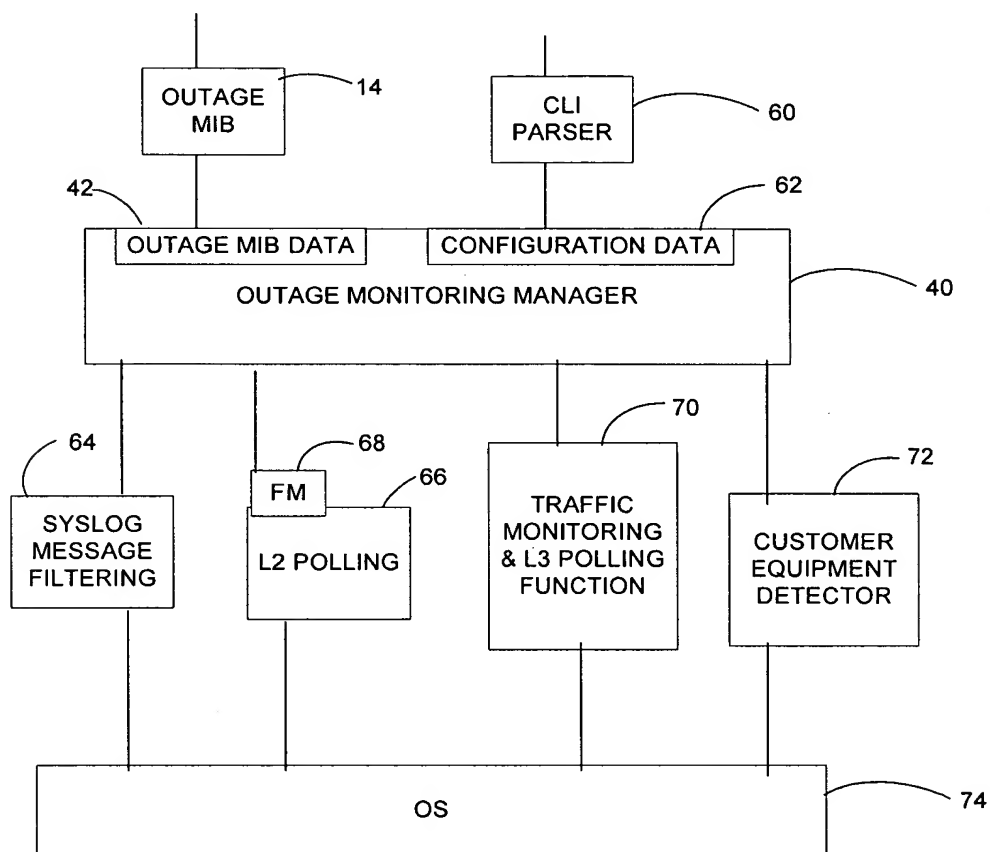


FIG. 4B

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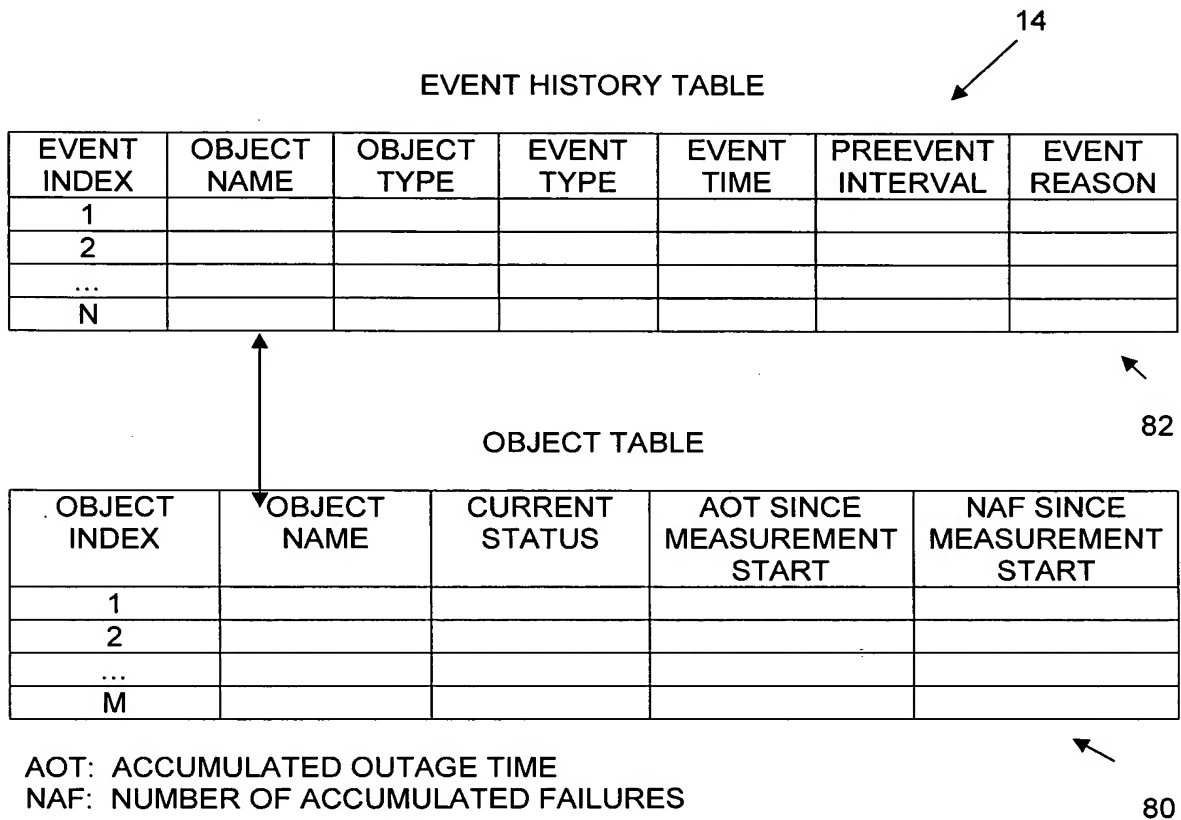


FIGURE 5

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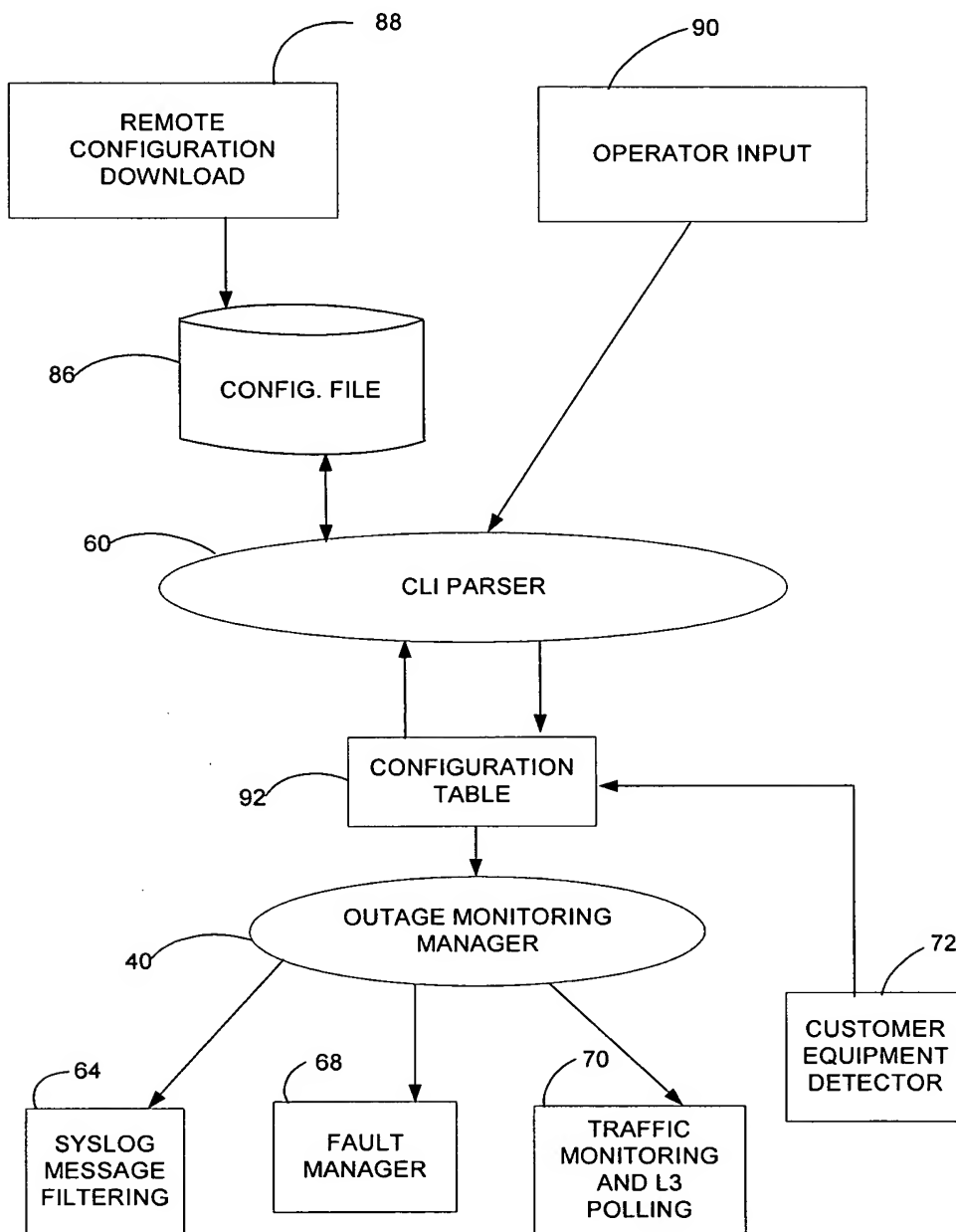


FIGURE 6

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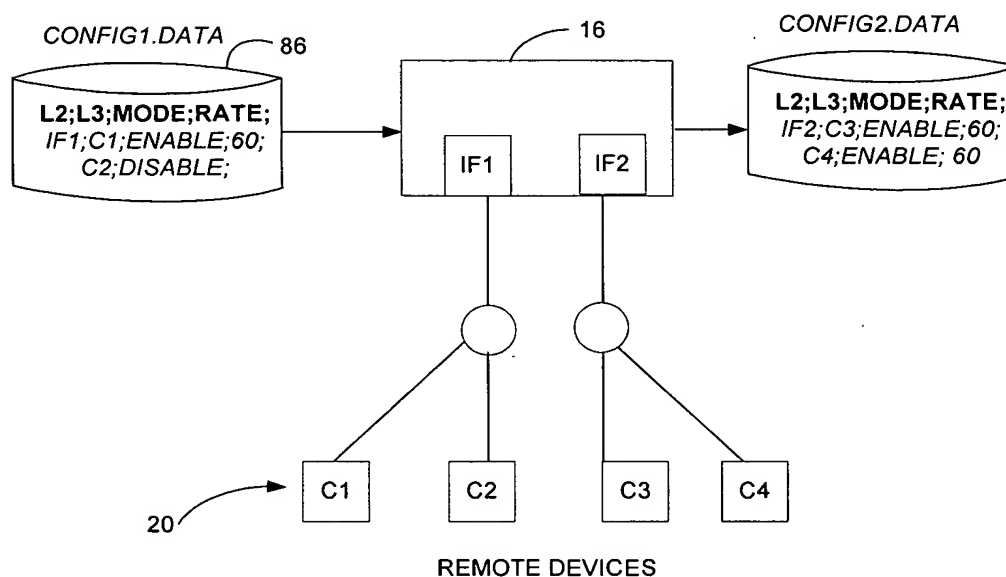


FIG. 7

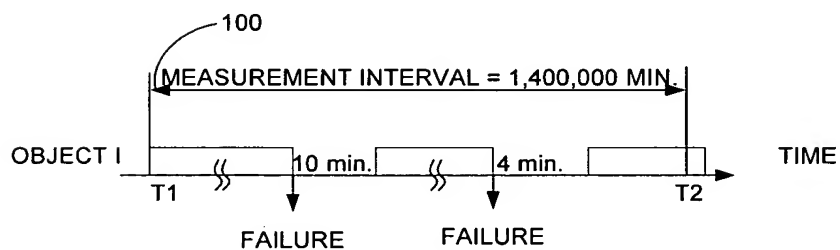


FIG. 8

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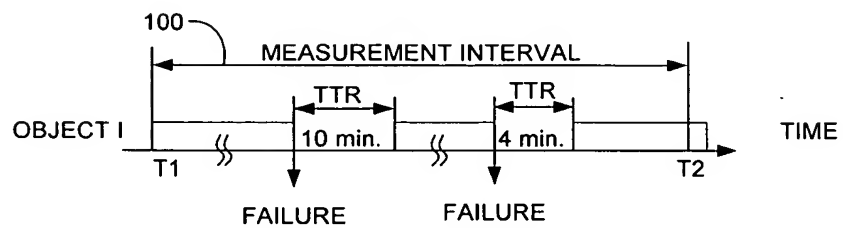


FIG. 9

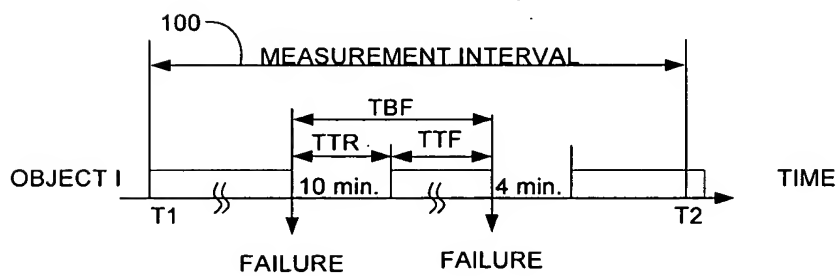


FIG. 10

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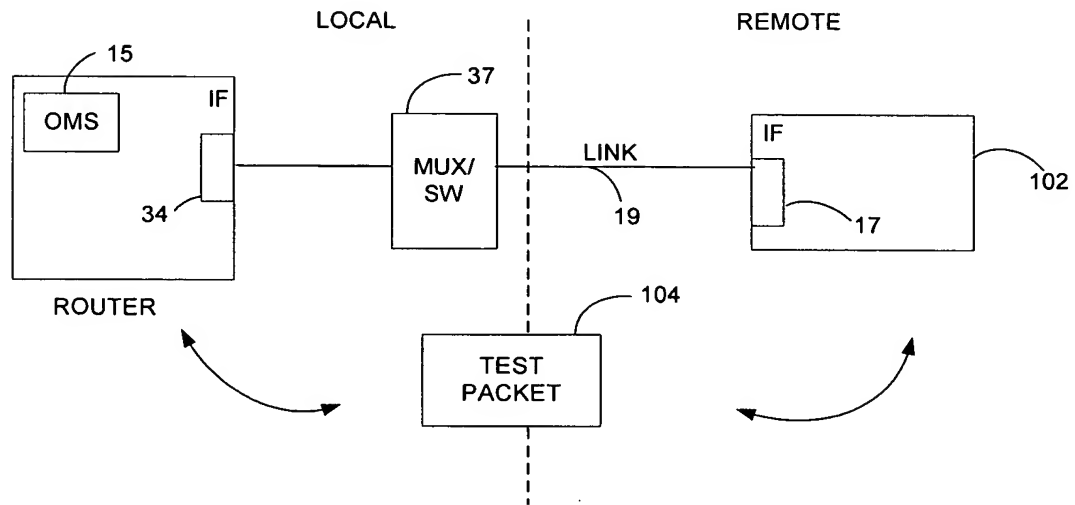


FIG. 11A

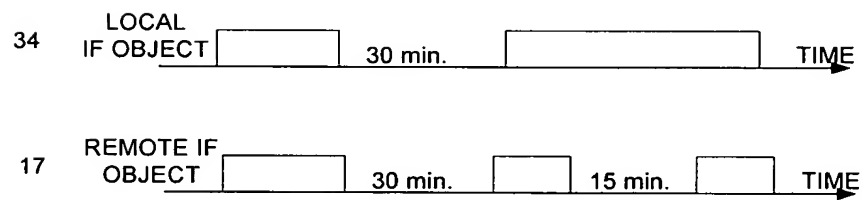


FIG. 11B

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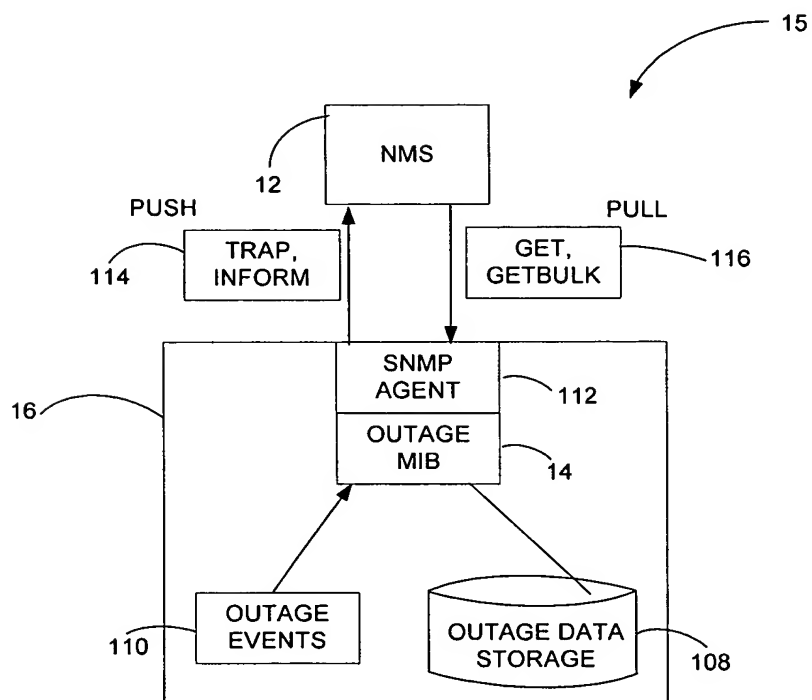


FIG. 12

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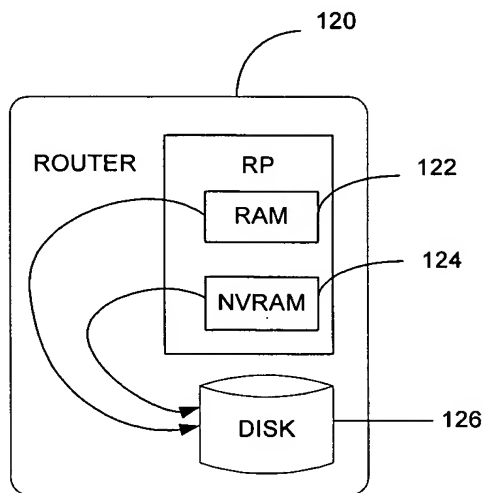


FIG. 13

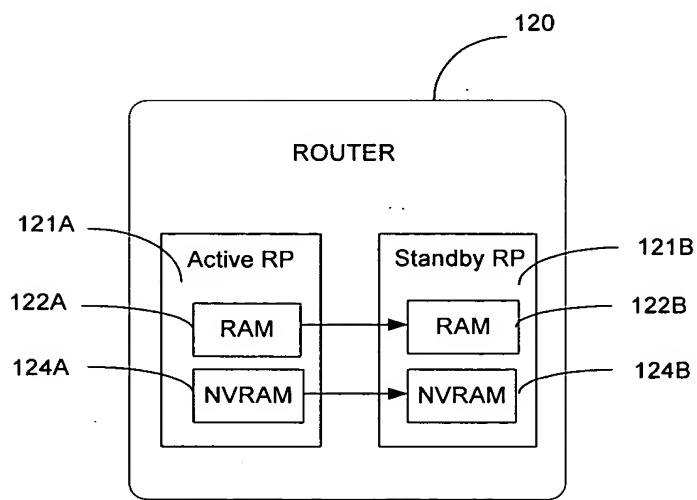


FIG. 14

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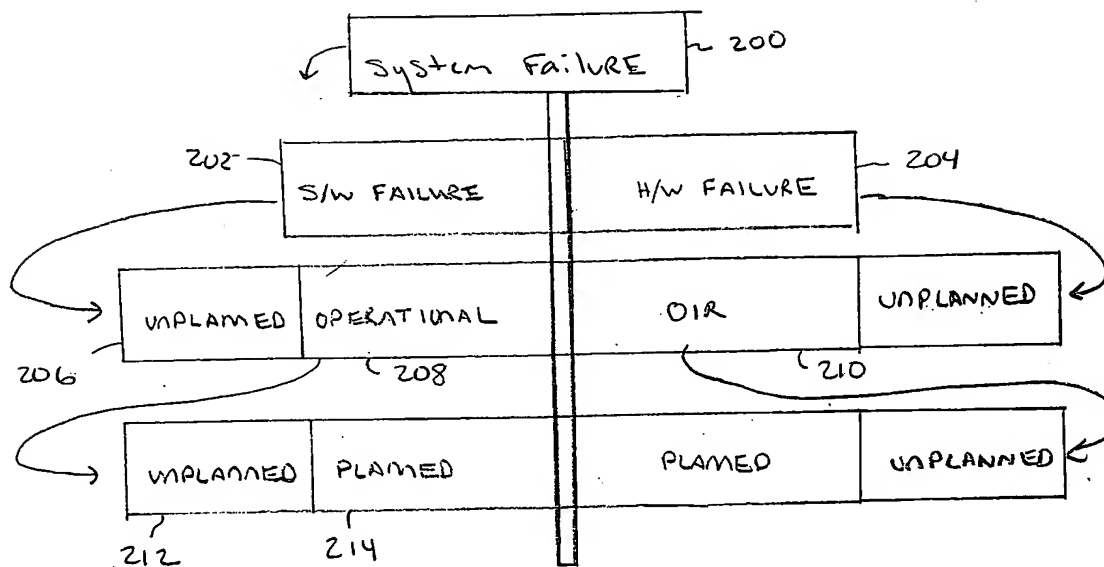


FIG. 15

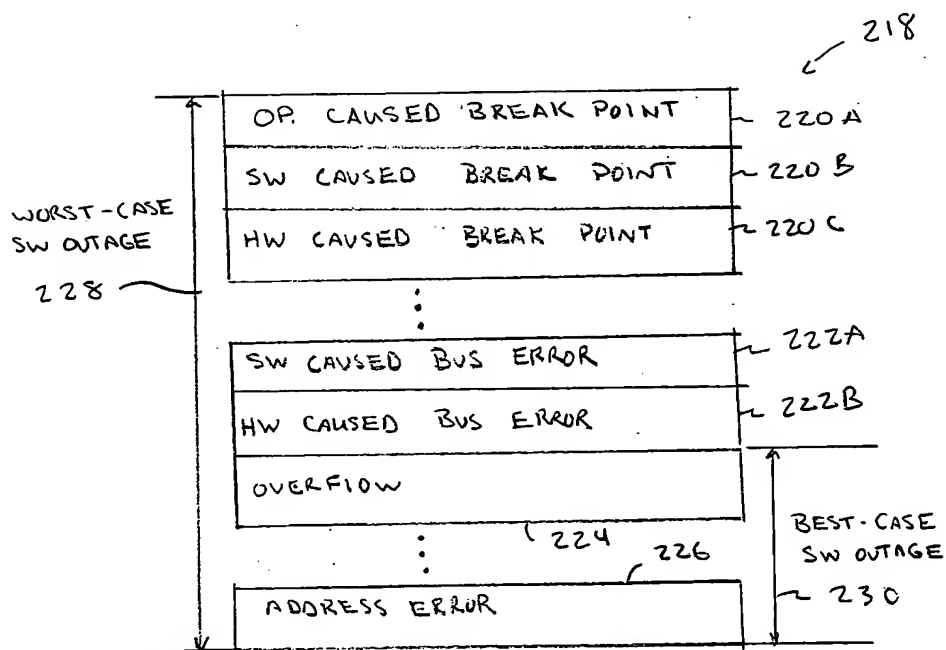


FIG. 16

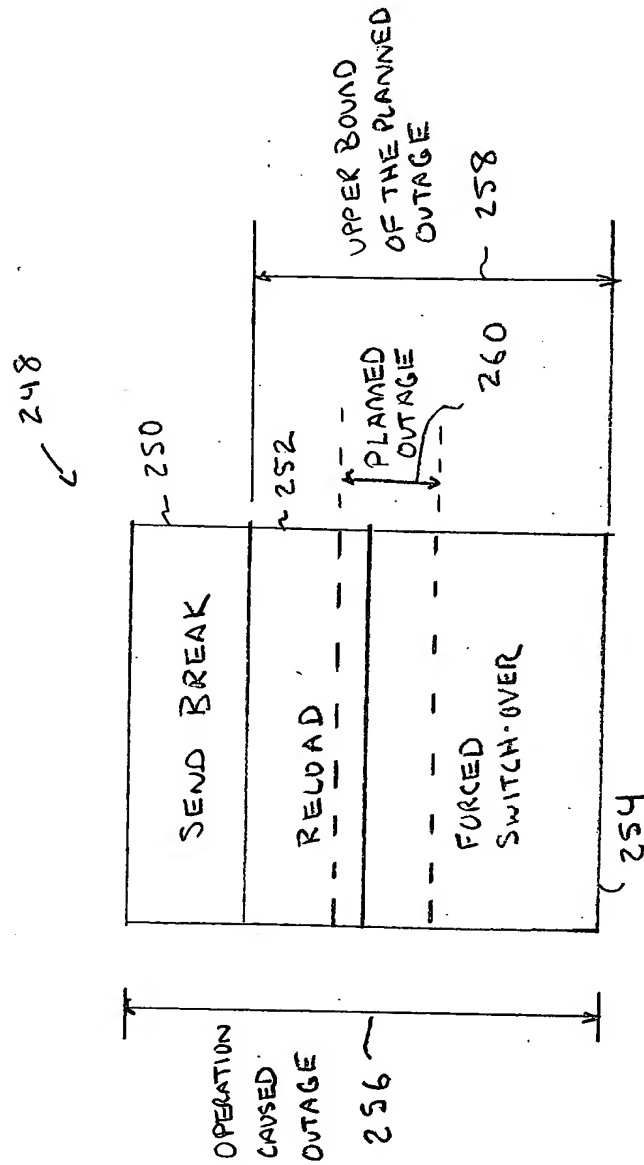
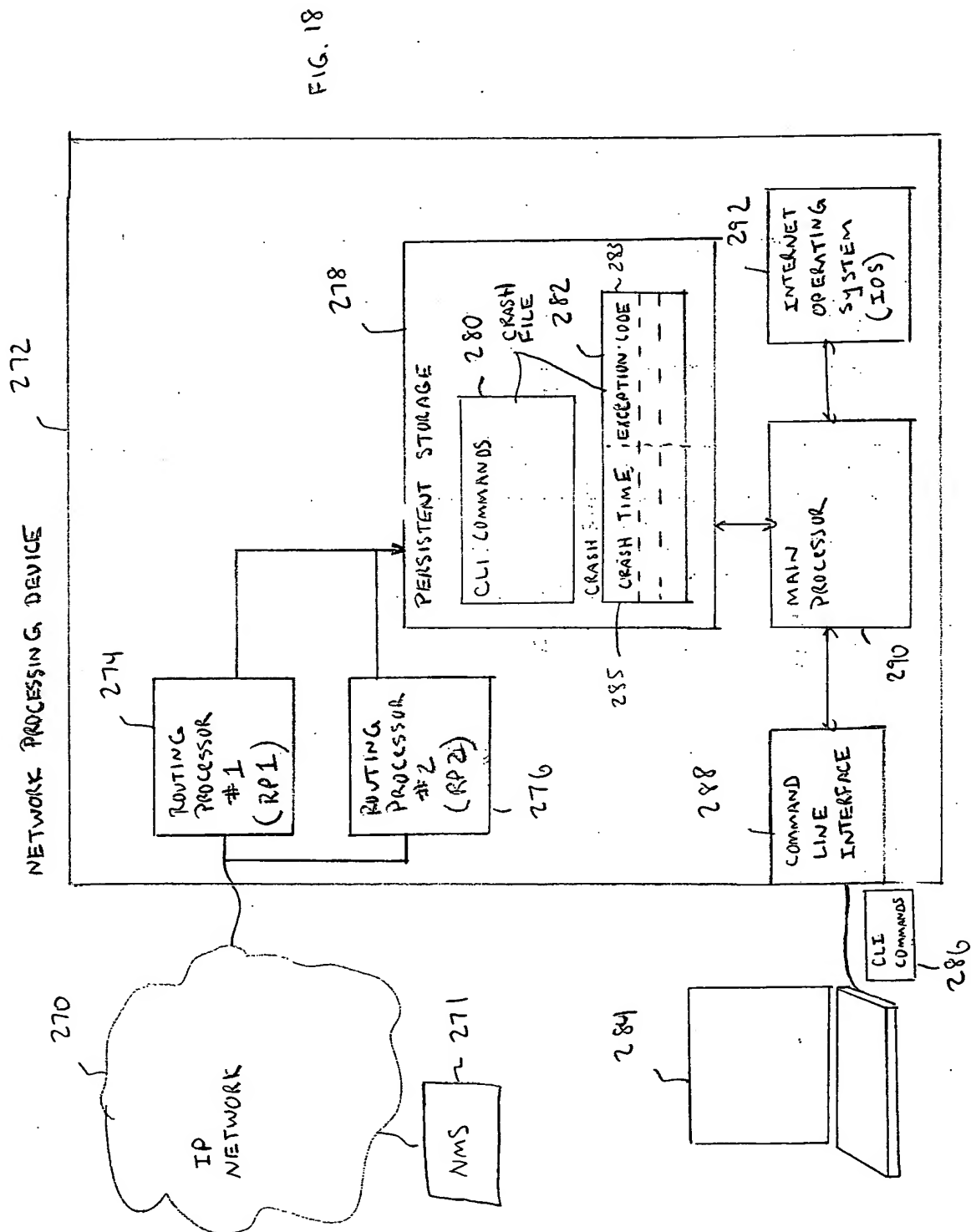


FIG. 17



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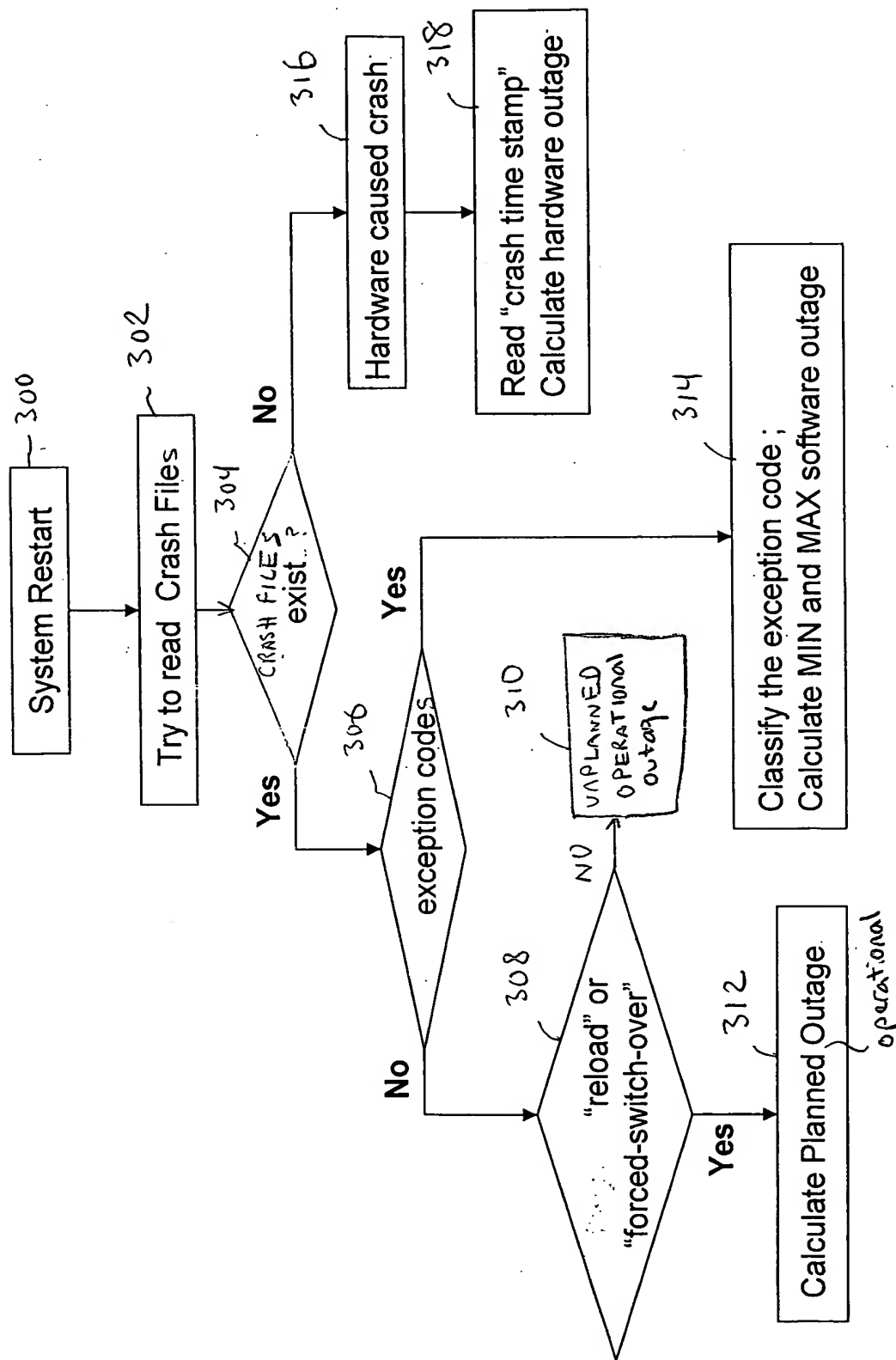


FIG. 19

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MIPS ERROR CODE	DEFINITION	MAX SW FAULT	MIN SW FAULT	HW/NON-IOS FAULT	OPERATIONAL
0	Interrupt	X		X	
...					
4	Address Error	X	X		
...					
9	Breakpoint	X		X	X
...					
15	Floating Point Error	X	X		

FIG. 20

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Reload (Operational)

**** COOL Object Table ****					
type	index	status	last-change	AOT	NAF object-name
2	1	1	1051869536	0	Router-Device
2	2	1	1051869537	0	MIN-IOS-SW
2	3	1	1051869537	0	MAX-IOS-SW
7507-S1202#reload					PLANNED OPERATIONAL
					IMPLEMENTED OPERATIONAL

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Restarted

**** COOL Object Table ****					
type	index	status	last-change	AOT	NAF object-name
2	1	1	1051869890	291	Router-Device
2	2	1	1051869890	0	MIN-IOS-SW
2	3	1	1051869890	0	MAX-IOS-SW
7507-S1202#					PLANNED OPERATIONAL
					IMPLEMENTED OPERATIONAL

FIG. 21A

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Error code = breakpoint 9

```

xterm
7507-S1202#sh cool obj
**** COOL Object Table ****

type index status last-change AOT      NAF      object-name
2      1      1      1051870525 591      2      Router-Device
2      2      1      1051870525 0         0      MIN-IOS-SW
2      3      1      1051870525 279      1      MAX-IOS-SW
7507-S1202# 291      1      PLANNED OPERATIONAL
                279      1      UNPLANNED OPERATIONAL

```

Error code = Address Error 4

xterm					
7507-S1202#sh cool obj					
**** COOL Object Table ****					
type	index	status	last-change	AOT	NAF object-name
2	1	1	1051871097	888	3 Router-Device
2	2	1	1051871097	280	1 MIN-IOS-SW
2	3	1	1051871097	559	2 MAX-IOS-SW
7507-S1202#				291	1 PLANNED OPERATIONAL
				279	1 UNPLANNED OPERATIONAL

FIG. 21B

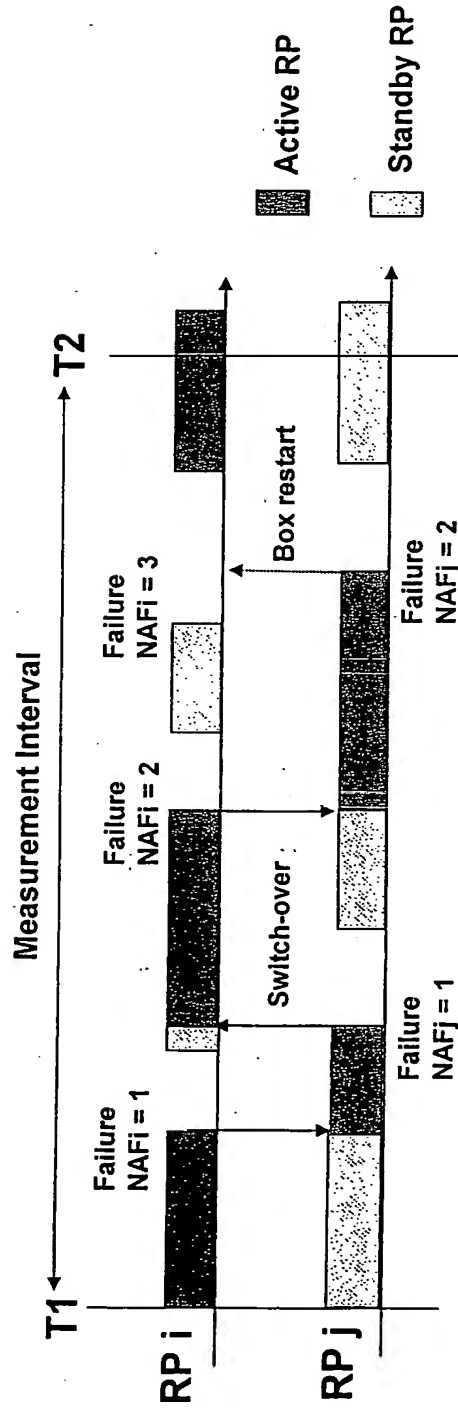
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RP Software MTBF

$$MTBF_i = (T_2 - T_1) / NAF_i$$

$$MTBF_j = (T_2 - T_1) / NAF_j$$



NAF: Number of Accumulated Failures

FIG. 22

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